

JC10 Rec'd PCT/PTO 22 JUN 2005

U. S. PATENT AND TRADEMARK OFFICE
U. S. DEPARTMENT OF COMMERCE

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

ITR0046YP

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/540449

INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE
PCT/GB2003/005536 December 18, 2003

PRIORITY DATE CLAIMED
December 27, 2002

TITLE OF INVENTION

N-SUBSTITUTED HYDROXYPYRIMIDINONE CARBOXAMIDE INHIBITORS OF HIV INTEGRASE

APPLICANT(S) FOR DO/EO/US

Benedetta Crescenzi, Olaf Kinzel, Ester Muraglia, Federica Orvieto, Giovanna Pescatore, Michael Rowley and Vincenzo Summa

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must include items (5), (6), (9) and (21) indicated below.
4. The US has been elected (PCT Article 31).
5. A copy of the International Application as filed [35 U.S.C. 371(c)(2)]
 - a. is attached hereto (required only if not communicated by the International Bureau).
 - b. has been communicated by the International Bureau.
 - c. is not required, as the application was filed in the United States Receiving Office (RO/US).
6. An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)].
 - a. is attached hereto
 - b. has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)].
 - a. are attached hereto (required only if not communicated by the International Bureau).
 - b. have been communicated by the International Bureau.
 - c. have not been made; however, the time limit for making such amendments has NOT expired.
 - d. have not been made and will not be made.
8. An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].
9. An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)].

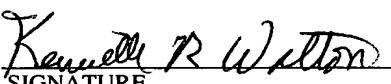
Items 11 to 20 below concern other document(s) or information included:

11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. A preliminary amendment.
14. An Application Data Sheet under 37 CFR 1.76.
15. A substitute specification.
16. A power of attorney and/or change of address letter.
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. A second copy of the published International Application under 35 U.S.C.154(d)(4).
19. A second copy of the English language translation of the international application under 35 U.S.C.154(d)(4).
20. Other items or information:
 1. International Search Report
 2. International Preliminary Examination Report

DATE OF DEPOIMENT: June 22, 2005
EXPRESS MAIL NO. E1461340990US
I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS EXPRESS MAIL POST OFFICE TO ADDRESSEE
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ALEXANDRIA, VIRGINIA 22313-1450

JC09 Rec'd PCT/PTO 22 JUN 2005

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER																																				
10/540449		PCT/GB2003/005536	ITR0046YP																																				
The following fees are submitted: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">21. <input checked="" type="checkbox"/> Basic national fee.....</td> <td style="text-align: right;">\$300</td> <td colspan="2">CALCULATIONS</td> </tr> <tr> <td colspan="2">22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....</td> <td style="text-align: right;">\$100</td> <td colspan="2">PTO USE ONLY</td> </tr> <tr> <td colspan="2">All other situations.....</td> <td style="text-align: right;">\$200</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">23. <input checked="" type="checkbox"/> Search fee Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority.....</td> <td style="text-align: right;">\$100</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">International Search Report prepared and provided to the Office.....</td> <td style="text-align: right;">\$400</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">All other situations.....</td> <td style="text-align: right;">\$500</td> <td colspan="2"></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF 21, 22 and 23=</td> <td style="text-align: right;">\$900.00</td> </tr> </table>					21. <input checked="" type="checkbox"/> Basic national fee.....		\$300	CALCULATIONS		22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....		\$100	PTO USE ONLY		All other situations.....		\$200			23. <input checked="" type="checkbox"/> Search fee Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority.....		\$100			International Search Report prepared and provided to the Office.....		\$400			All other situations.....		\$500			TOTAL OF 21, 22 and 23=				\$900.00
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<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>111 - 100 =</td> <td>11 /50</td> <td>0.22 = 1</td> <td>X \$250.00</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: right;">\$250.00</td> </tr> </table>					Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	111 - 100 =	11 /50	0.22 = 1	X \$250.00				\$250.00																							
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Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)]. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: right;">+</td> </tr> </table>					+																																		
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CLAIMS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Total Claims</td> <td>NUMBER FILED 15 - 20 =</td> <td>NUMBER EXTRA 0</td> <td>RATE X \$50.00</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3 =</td> <td>0</td> <td>X \$200.00</td> <td style="text-align: right;">\$0.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td style="text-align: right;">+ \$360.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS (SUBTOTAL)</td> <td style="text-align: right;">\$1,150.00</td> </tr> </table>					Total Claims	NUMBER FILED 15 - 20 =	NUMBER EXTRA 0	RATE X \$50.00	\$0.00	Independent Claims	1 - 3 =	0	X \$200.00	\$0.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00		TOTAL OF ABOVE CALCULATIONS (SUBTOTAL)				\$1,150.00															
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Amount to be refunded: Amount to be charged:																																							
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>13-2755</u> in the amount of <u>\$1,150.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. <u>13-2755</u> . A duplicate copy of this sheet is enclosed.																																							
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or (b)] must be filed and granted to restore the International Application to pending status.																																							
SEND ALL CORRESPONDENCE TO: <div style="border: 1px solid black; padding: 2px; display: inline-block;">Customer No. 000210</div>																																							
MERCK & CO., INC. Patent Department, RY60-30 P.O. Box 2000 126 East Lincoln Avenue Rahway, New Jersey 07065-0970																																							
<div style="text-align: right; margin-bottom: 10px;">  SIGNATURE </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>Kenneth R. Walton</u> NAME </div> <div style="width: 45%;"> <u>32,951</u> REGISTRATION NUMBER </div> </div>																																							
DATE: <u>June 22, 2005</u> PHONE #: <u>(732) 594-3462</u>																																							